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(54) Title: DIAGNOSTICS AND THERAPEUTICS FOR DISEASES ASSOCIATED WITH PROTEIN KINASE, CGMP-DEPENDENT, TYPE I (PRKG1)

(57) **Abstract:** The invention provides a human PRKG1 which is associated with cardiovascular diseases, respiratory diseases, dermatological diseases, endocrinological diseases, metabolic diseases, inflammation, gastroenterological diseases, cancer, hematological diseases, muscle-skeleton-diseases, neurological diseases and urological diseases. The invention also provides assays for the identification of compounds useful in the treatment or prevention of cardiovascular diseases, respiratory diseases, dermatological diseases, endocrinological diseases, metabolic diseases, inflammation, gastroenterological diseases, cancer, hematological diseases, muscle-skeleton-diseases, neurological diseases and urological diseases. The invention also features compounds which bind to and/or activate or inhibit the activity of PRKG1 as well as pharmaceutical compositions comprising such compounds. BHC 04 1 081-Foreign Countries - 5 -